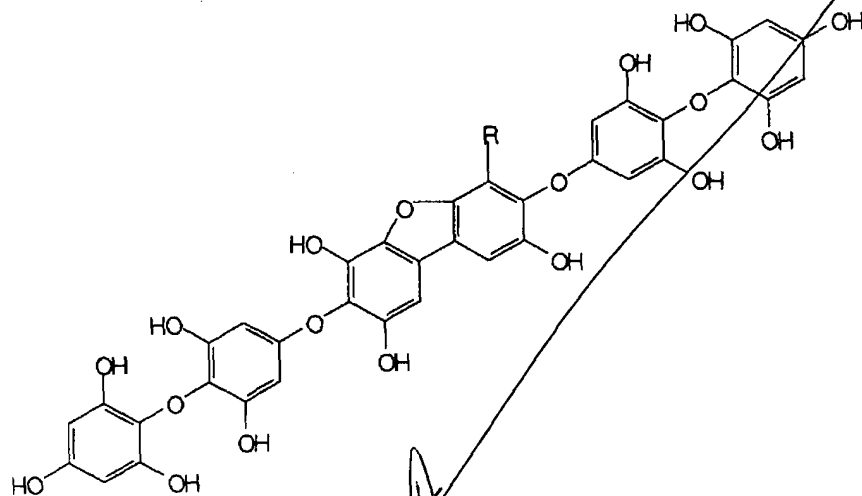


What is claimed is:

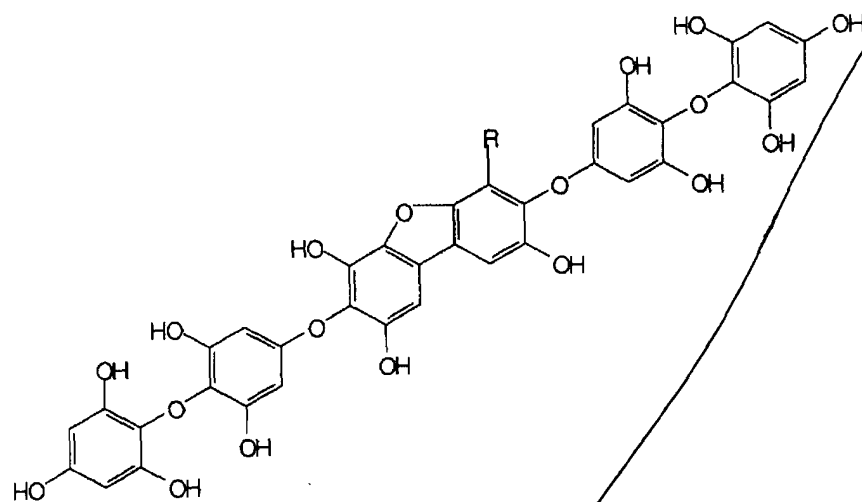
1. A <sup>compd</sup>(material) represented by the following Formula I.



wherein R is hydrogen or a hydroxy group.

2. An extract containing the material of claim 1, obtained from *Ecklonia cava* by use of an organic solvent.

3. A method for extracting and purifying from *Ecklonia cava*, the materials, represented by the following Formula I:



wherein R is hydrogen or a hydroxy group,  
comprising the steps of:

- 5     extracting antioxidative ingredients from *Ecklonia*  
cava once or more times with an organic solvent;  
      fractionating the antioxidative ingredients one or  
more times in solvents; and  
      purifying the solvent fractions by chromatography.

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4. The method as set forth in claim 3, wherein said  
organic solvent is selected from the group consisting of  
methanol, ethanol, ethyl acetate, acetonitrile, acetone,  
aqueous solutions thereof, and mixtures thereof.

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5. The method as set forth in claim 3, wherein the  
extracting step is repeated using the same or different

solvents.

6. The method as set forth in claim 3, wherein the fractionating step comprises:

- 5 a primary solvent-fractionating step of fractionating the extract by using an aqueous 10 to 90 % methanol solution as a polar layer, and a linear or cyclic hydrocarbon solvent, an aromatic solvent, or a mixture thereof as a nonpolar layer;
- 10 a secondary solvent-fractionating step of fractionating an aqueous methanol layer obtained in the primary step by using an aqueous 10 to 60 % methanol solution as a polar layer and at least one ether as a nonpolar layer; and
- 15 a tertiary solvent-fractionating step of fractionating an aqueous methanol layer obtained in the secondary step by using an aqueous 10 to 60 % methanol solution as a polar layer and chloroform, dichloromethane, or a mixture thereof as a nonpolar layer.

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7. The method as set forth in claim 3, wherein the fractionating step comprises:

- 25 a primary solvent-fractionating step of fractionating the extract by using an aqueous 10 to 90 % methanol solution as a polar layer, and hexane as a nonpolar

layer;

a secondary solvent-fractionating step of  
fractionating an aqueous methanol layer obtained in  
the primary step by using an aqueous 20 to 40 %  
methanol solution as a polar layer and isopropyl  
ether as a nonpolar layer; and  
a tertiary solvent-fractionating step of fractionating  
an aqueous methanol layer obtained in the secondary  
step by using an aqueous 30 to 50 % methanol solution  
as a polar layer and chloroform as a nonpolar layer.

8. The method as set forth in claim 3, further  
comprising the step of dissolving the extract in ethyl  
acetate and/or methanol and providing the dissolved portion  
to the fractionating step.

9. The method as set forth in claim 3, wherein the  
chromatography is medium pressure liquid chromatography  
(MPLC) or high performance liquid chromatography (HPLC).

10. Use of the material of claim 1 as antioxidants.

11. Use of the extract of claim 2 as antioxidants.